

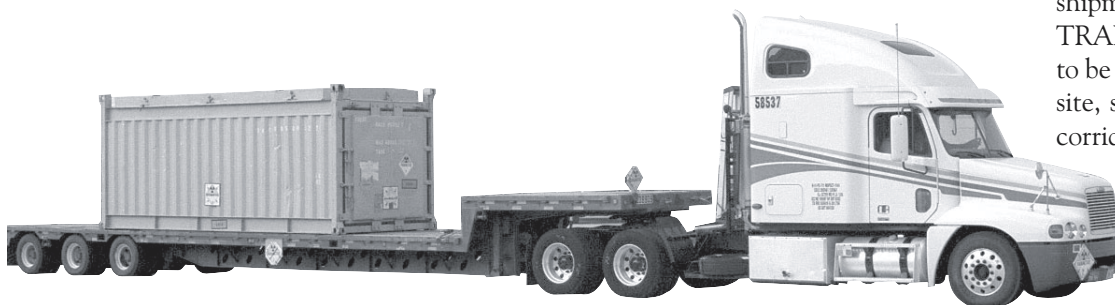
*U.S. Department of Energy Office of
Environmental Management*

National Transportation Program



TRANSCOM

The DOE Transportation Tracking and Communications System



DOE monitors the progress of some unclassified high-visibility shipments using the Transportation Tracking and Communications system (TRANSCOM). TRANSCOM utilizes onboard state-of-the-art global positioning system equipment to provide near real-time tracking.

TRANSCOM is the Department of Energy (DOE) satellite tracking and communications system used to monitor the progress of various "high-visibility" unclassified shipments such as spent nuclear fuel, high-level and transuranic radioactive waste to name a few.

How TRANSCOM Works

TRANSCOM utilizes onboard satellite global positioning system (GPS) equipment to track truck, rail, ship and barge shipments as they make their way from origin to destination. Satellites poll the enroute shipments on a 2- to 4-minute near real-time frequency and relay positional and message

information to a ground station located in the western United States. This shipment data is then relayed to the TRANSCOM Communications Center (TCC) database and made available over the Web to a network of more than 300 trained and authorized Federal, State and Tribal customers across the United States. TRANSCOM can provide position accuracy within 1,000 feet of a stopped vehicle.

Available Shipping Information

Authorized users can access the TRANSCOM system and obtain shipment information concerning current and scheduled future

shipments. The scheduling module of TRANSCOM allows future shipments to be scheduled and viewed by DOE site, shipment campaign or shipment corridor. Only one copy of shipment information is allowed in the system, ensuring that all users view the same information. Specific shipment information available to authorized users includes bill of lading, bill of lading notes, routes, messages, positional information, emergency contact information and a state-of-the-art mapping function that auto displays shipment position information.

Customers

Although TRANSCOM was originally developed for internal DOE use, it is now available to more than 300 DOE, State and Tribal clients across the DOE transportation community. Other TRANSCOM customers include the U.S. Nuclear Regulatory Commission, DOE motor and rail carriers and the U.S. Coast Guard. TRANSCOM access provides authorized customers the ability to monitor the progress of DOE shipments as they cross their State or Tribal jurisdictions. Should an incident occur, TRANSCOM becomes

